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Occupational Employment and Wages in Milwaukee-Waukesha-West Allis — May 2020

Workers in the Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area had an average (mean) hourly wage of \$26.46 in May 2020, about 2 percent below the nationwide average of \$27.07, the U.S. Bureau of Labor Statistics reported today. Regional Commissioner Jason Palmer noted that, after testing for statistical significance, wages in the local area were lower than their respective national averages in 12 of the 22 major occupational groups, including arts, design, entertainment, sports, and media; architecture and engineering; and computer and mathematical. Five groups had significantly higher wages than their respective national averages, including construction and extraction, sales and related, and management.

When compared to the nationwide distribution, Milwaukee area employment was more highly concentrated in 5 of the 22 occupational groups, including production, healthcare support, and healthcare practitioners and technical. Twelve groups had employment shares significantly below their national representation, including food preparation and serving related, management, and educational instruction and library. (See table A.)

Table A. Occupational employment and wages by major occupational group, United States and the Milwaukee metropolitan area, and measures of statistical significance, May 2020

Major occupational group	Percent of total	ıl employment	Mean hourly wage			
	United States	Milwaukee	United States	Milwaukee	Percent difference (1)	
Total, all occupations	100.0	100.0	\$27.07	\$26.46*	-2	
Management	5.7	4.7*	60.81	63.42*	4	
Business and financial operations	6.0	6.6*	38.79	35.46*	-9	
Computer and mathematical	3.3	3.2	46.53	40.84*	-12	
Architecture and engineering	1.8	2.2*	43.41	37.36*	-14	
Life, physical, and social science	0.9	0.7*	38.15	34.73*	-9	
Community and social service	1.6	1.4*	25.09	23.61*	-6	
Legal	0.8	0.8	54.00	50.87	-6	
Educational instruction and library	6.1	5.3*	28.75	26.69*	-7	
Arts, design, entertainment, sports, and media	1.3	1.3	30.96	23.54*	-24	
Healthcare practitioners and technical	6.2	7.2*	41.30	43.17	5	
Healthcare support	4.6	6.3*	15.50	14.19*	-8	
Protective service	2.4	1.8*	25.11	24.72	-2	
Food preparation and serving related	8.1	6.8*	13.30	11.85*	-11	
Building and grounds cleaning and maintenance	2.9	2.7*	15.75	15.52	-1	
Personal care and service	1.9	1.8	15.68	15.07*	-4	
Sales and related	9.4	8.7*	22.00	25.00*	14	
Office and administrative support	13.3	13.0	20.38	20.56	1	
Farming, fishing, and forestry	0.3	(2)	16.02	14.25*	-11	
Construction and extraction	4.3	3.6*	25.93	29.59*	14	

Note: See footnotes at end of table

Table A. Occupational employment and wages by major occupational group, United States and the Milwaukee metropolitan area, and measures of statistical significance, May 2020 - Continued

	Percent of total	al employment	Mean hourly wage			
Major occupational group	United States	Milwaukee	ee United States Milwaukee	Percent difference (1)		
Installation, maintenance, and repair	3.9	3.7*	25.17	25.83*	3	
Production	6.1	9.9*	20.08	20.44*	2	
Transportation and material moving	8.7	8.3*	19.08	17.97*	-6	

Footnotes:

One occupational group—production—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Milwaukee had 79,360 jobs in production, accounting for 9.9 percent of local area employment, significantly higher than the 6.1-percent share nationally. The average hourly wage for this occupational group locally was \$20.44, significantly above the national wage of \$20.08.

Some of the larger detailed occupations within the production group included miscellaneous assemblers and fabricators (9,750), first-line supervisors of production and operating workers (6,350), and computer numerically controlled tool operators (5,480). Among the higher-paying jobs in this group were power plant operators and first-line supervisors of production and operating workers, with mean hourly wages of \$37.03 and \$31.60, respectively. At the lower end of the wage scale were pressers, textile, garment, and related materials (\$12.45) and laundry and dry-cleaning workers (\$12.57). (Detailed data for the production occupations are presented in table 1; for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes_33340.htm.)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See table 1.) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Milwaukee area, above-average concentrations of employment were found in many of the occupations within the production group. For instance, computer numerically controlled tool operators were employed at 6.4 times the national rate in Milwaukee, and tool and die makers, at 4.3 times the U.S. average. Laundry and dry-cleaning workers had a location quotient of 1.0 in Milwaukee, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment and Wage Statistics (OEWS) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Wisconsin Department of Workforce Development.

⁽¹⁾ A positive percent difference measures how much the mean wage in the Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area is above the national mean wage, while a negative difference reflects a lower wage.

⁽²⁾ Indicates a value of less than 0.05 percent.

^{*} The mean hourly wage or percent share of employment is significantly different from the national average of all areas at the 90-percent confidence level.

Occupational Employment and Wage Statistics (OEWS) Name Change

The Occupational Employment Statistics (OES) program has changed its name to Occupational Employment and Wage Statistics (OEWS) to better reflect the range of data available from the program. Data released on or after March 31, 2021, will reflect the new program name. Webpages, publications, and other materials associated with previous data releases will retain the Occupational Employment Statistics name.

Coronavirus (COVID-19) Impact on May 2020 Occupational Employment and Wage Statistics

Due to features of the OEWS methodology, the May 2020 OEWS estimates do not fully reflect the impact of the COVID-19 pandemic. The May 2020 OEWS estimates are based on survey panels collected for May 2020, November 2019, May 2019, November 2018, May 2018, and November 2017. Because 5 of the 6 survey panels used to produce the estimates date from before the COVID-19 pandemic, only the most recent (May 2020) survey panel reflects changes in occupational proportions related to the COVID-19 pandemic.

The May 2020 OEWS employment estimates are benchmarked to the average of May 2020 and November 2019 employment from the Quarterly Census of Employment and Wages (QCEW). Although the May 2020 QCEW data reflect the early employment effects of the COVID-19 pandemic, the November 2019 QCEW employment data precede the pandemic, and therefore do not reflect its impact.

In addition, as a result of the pandemic, response rates for the November 2019 and May 2020 panels were lower in some areas. Lower response rates may negatively affect data availability and data quality. More information is available at www.bls.gov/covid19/effects-of-covid-19-pandemic-on-occupational-employment-and-wage-statistics.htm.

Implementing the 2018 Standard Occupational Classification (SOC) System

With the May 2019 estimates, the OEWS program began implementing the 2018 Standard Occupational Classification (SOC) system. Because the May 2019 and May 2020 estimates are based on a combination of survey data collected using the 2010 SOC and survey data collected using the 2018 SOC, these estimates use a hybrid of the two classification systems that contains some combinations of occupations that are not found in either the 2010 or 2018 SOC. This is the second and final year that the hybrid occupational structure will be used. The May 2021 estimates, to be published in Spring 2022, will be the first OEWS estimates based entirely on survey data collected using the 2018 SOC. For more information on the occupational classification system used in the May 2019 and May 2020 estimates, please see www.bls.gov/oes/soc_2018.htm and www.bls.gov/oes/oes_ques.htm#qf10.

Upcoming Changes to the Occupational Employment and Wage Statistics Methodology

With the May 2021 estimates, to be released in Spring 2022, the OEWS program plans to begin using a new estimation methodology. The new model-based methodology, called MB3, has advantages over the existing methodology, as described in the Monthly Labor Review article at www.bls.gov/opub/mlr/2019/article/model-based-estimates-for-the-occupational-employment-statistics-program.htm. OEWS estimates for the years 2015-2018 were recalculated using the new estimation methodology and are available as research estimates at www.bls.gov/oes/oes-mb3-methods.htm.

Technical Note

The Occupational Employment and Wage Statistics (OEWS) survey is a semiannual survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OEWS data available from BLS include cross-industry occupational employment and wage estimates for the nation; over 580 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS sector, 3-digit, most 4-digit, and selected 5- and 6-digit industry levels, and national estimates by ownership across all industries and for schools and hospitals. OEWS data are available at www.bls.gov/oes/tables.htm.

The OEWS survey is a cooperative effort between BLS and the State Workforce Agencies (SWAs). BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies collect most of the data. OEWS estimates are constructed from a sample of about 1.1 million establishments. Each year, two semiannual panels of approximately 180,000 to 185,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, Internet or other electronic means, email, telephone, or personal visit. The May 2020 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2020, November 2019, May 2019, November 2018, May 2018, and November 2017. The unweighted sample employment of 83 million across all six semiannual panels represents approximately 56 percent of total national employment. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 69 percent based on establishments and 66 percent based on weighted sampled employment. The sample in the Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area included 4,570 establishments with a response rate of 69 percent. For more information about OEWS concepts and methodology, go to www.bls.gov/oes/current/oes_tec.htm.

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Metropolitan area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area** includes Milwaukee, Ozaukee, Washington, and Waukesha Counties.

For more information

Answers to frequently asked questions about the OEWS data are available at www.bls.gov/oes/oes_ques.htm. Detailed information about the OEWS program is available at www.bls.gov/oes/oes_doc.htm.

Information in this release will be made available to individuals with sensory impairments upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Employment and wage data for production occupations, Milwaukee metropolitan area, May 2020

Table 1. Employment and wage data for produ	· · · · · · · · · · · · · · · · · · ·	yment	Mean wages		
Occupation (1)	Level (2)	Location quotient (3)	Hourly	Annual (4)	
Production occupations	79,360	1.6	\$20.44	\$42,510	
First-line supervisors of production and operating workers	6,350	1.8	31.60	65,730	
Coil winders, tapers, and finishers	(5)	(5)	22.03	45,830	
Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers	4,130	2.5	18.25	37,960	
Engine and other machine assemblers	800	3.4	21.06	43,800	
Structural metal fabricators and fitters	680	1.7	24.92	51,830	
Miscellaneous assemblers and fabricators	9,750	1.3	16.35	34,000	
Bakers	1,270	1.3	15.15	31,510	
Butchers and meat cutters	680	0.8	16.81	34,960	
Meat, poultry, and fish cutters and trimmers	(5)	(5)	14.92 14.33	31,040 29,810	
Slaughterers and meat packers Food and tobacco roasting, baking, and drying machine operators and tenders	(5)	(5)	15.47	32,180	
Food batchmakers	1,650	1.9	15.57	32,380	
Food processing workers, all other	170	0.7	17.07	35,500	
Extruding and drawing machine setters, operators, and tenders, metal and plastic	240	0.6	19.66	40,880	
Forging machine setters, operators, and tenders, metal and plastic	240	3.0	23.75	49,400	
Rolling machine setters, operators, and tenders, metal and plastic	390	2.0	22.80	47,410	
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	2,710	2.6	19.36	40,280	
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	100	1.9	23.17	48,180	
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	1,160	2.9	18.32	38,100	
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	370	2.7	22.33	46,450	
Machinists	3,530	1.7	20.55	42,750	
Metal-refining furnace operators and tenders	150	1.7	22.99	47,820	
Pourers and casters, metal Model makers, metal and plastic	(5)	(5)	21.26 22.05	44,210 45,870	
Patternmakers, metal and plastic	(5)	(5)	27.99	58,210	
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	1,950	2.2	18.34	38,150	
Multiple machine tool setters, operators, and tenders, metal and plastic	940	1.2	23.19	48,220	
Tool and die makers	1,500	4.3	26.29	54,670	
Welders, cutters, solderers, and brazers	4,540	2.0	24.78	51,540	
Welding, soldering, and brazing machine setters, operators, and tenders	110	0.6	20.62	42,880	
Heat treating equipment setters, operators, and tenders, metal and plastic	240	2.5	21.42	44,560	
Layout workers, metal and plastic	(5)	(5)	22.90	47,620	
Plating machine setters, operators, and tenders, metal and plastic	520	2.3	17.46	36,310	
Metal workers and plastic workers, all other	70	0.6	17.98	37,400	
Prepress technicians and workers	480	2.9	18.68	38,850	
Printing press operators	3,110	3.4	19.11	39,740	
Print binding and finishing workersLaundry and dry-cleaning workers	840 1,030	3.4	17.15 12.57	35,660 26,140	
Pressers, textile, garment, and related materials	1,030	0.9	12.37	25,890	
Sewing machine operators	650	1.0	14.57	30,310	
Shoe and leather workers and repairers	(5)	(5)	16.11	33,500	
Tailors, dressmakers, and custom sewers	(5)	(5)	15.05	31,310	
Textile cutting machine setters, operators, and tenders	30	0.5	15.04	31,290	
Upholsterers	90	0.6	14.11	29,340	

Note: See footnotes at end of table.

Table 1. Employment and wage data for production occupations, Milwaukee metropolitan area, May 2020 - Continued

Occupation (1)	Emplo	yment	Mean wages		
	Level (2)	Location quotient (3)	Hourly	Annual (4)	
Cabinetmakers and bench carpenters	460	0.9	21.16	44,020	
Furniture finishers	60	0.6	21.93	45,620	
Sawing machine setters, operators, and tenders, wood.	(5)	(5)	16.78	34,910	
Woodworking machine setters, operators, and tenders, except sawing	540	1.2	14.23	29,600	
Power plant operators	210	1.1	37.03	77,020	
Stationary engineers and boiler operators	70	0.4	30.18	62,770	
Water and wastewater treatment plant and system operators	460	0.7	27.69	57,600	
Chemical equipment operators and tenders	780	1.4	21.40	44,520	
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	220	0.8	21.36	44,440	
Crushing, grinding, and polishing machine setters, operators, and tenders	60	0.3	18.52	38,520	
Grinding and polishing workers, hand	440	3.2	14.83	30,840	
Mixing and blending machine setters, operators, and tenders	1,070	1.6	18.37	38,200	
Cutting and slicing machine setters, operators, and tenders	480	1.6	17.34	36,070	
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	570	1.6	17.57	36,550	
Furnace, kiln, oven, drier, and kettle operators and tenders	100	1.0	16.73	34,800	
Inspectors, testers, sorters, samplers, and weighers	4,530	1.4	20.88	43,430	
Jewelers and precious stone and metal workers	220	2.0	26.88	55,910	
Dental laboratory technicians	450	2.6	20.54	42,720	
Medical appliance technicians	170	2.2	18.87	39,250	
Packaging and filling machine operators and tenders	3,310	1.5	17.04	35,440	
Coating, painting, and spraying machine setters, operators, and tenders	1,470	1.9	19.34	40,230	
Photographic process workers and processing machine operators	(5)	(5)	16.98	35,310	
Computer numerically controlled tool operators	5,480	6.4	24.12	50,180	
Computer numerically controlled tool programmers	380	2.6	26.43	54,960	
Etchers and engravers	(5)	(5)	19.08	39,680	
Molders, shapers, and casters, except metal and plastic	(5)	(5)	19.79	41,160	
Paper goods machine setters, operators, and tenders	680	1.2	18.55	38,590	
Helpersproduction workers	1,680	1.2	15.78	32,820	
Production workers, all other	950	0.9	16.38	34,070	

Footnotes

⁽¹⁾ For a complete listing of all detailed occupations in the Milwaukee-Waukesha-West Allis, WI Metropolitan Statistical Area, see www.bls.gov/oes/current/oes_33340.htm

⁽²⁾ Estimates for detailed occupations may not sum to the totals due to rounding, and because the totals may include occupations that are not shown separately. Estimates do not include self-employed workers.

⁽³⁾ The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

⁽⁴⁾ Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

⁽⁵⁾ Estimate not released.